

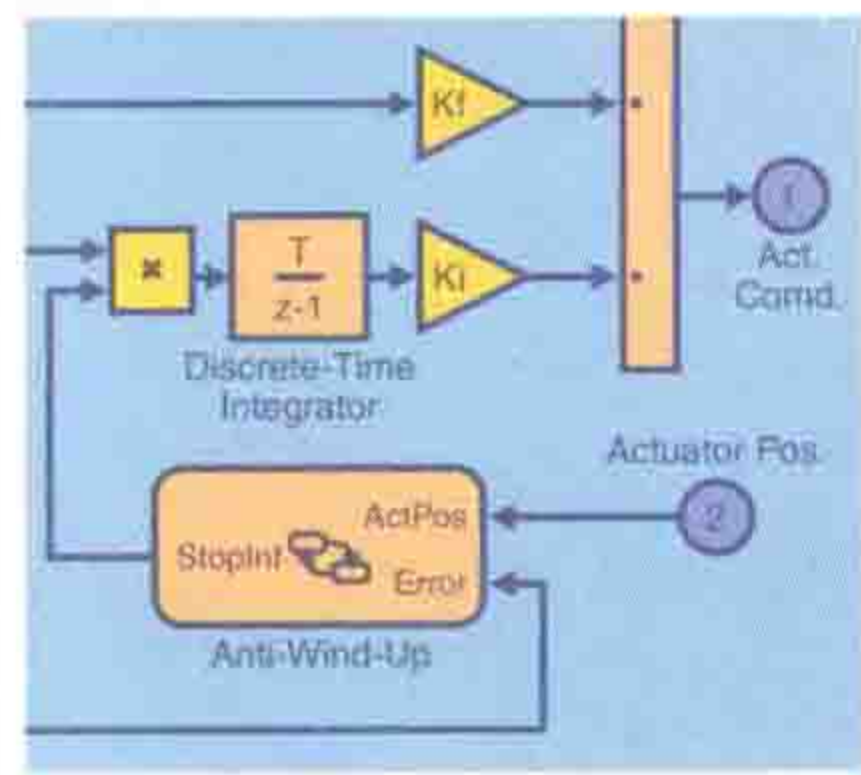
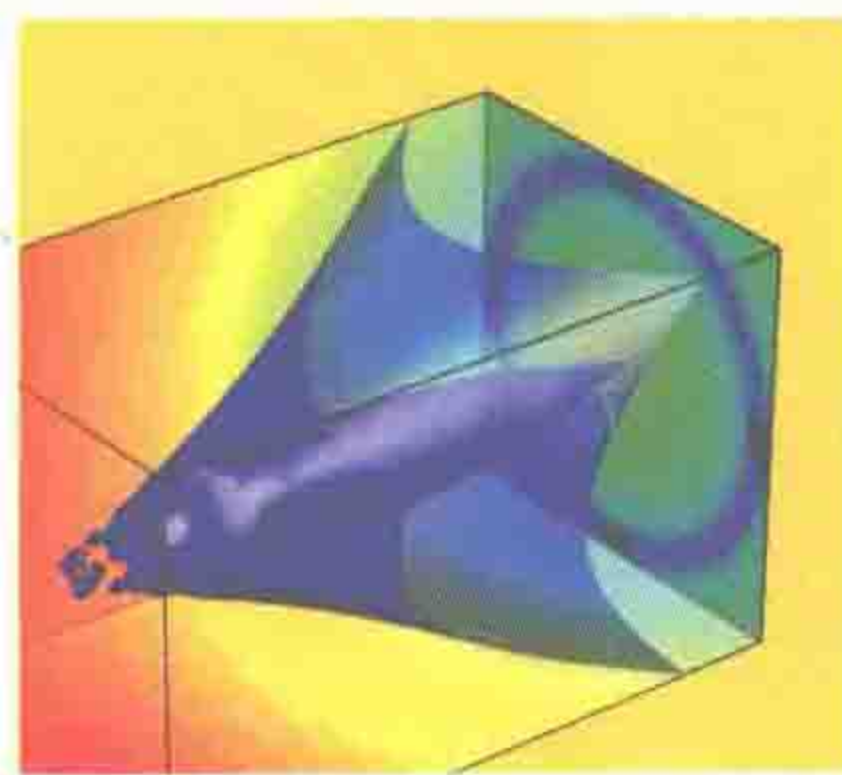
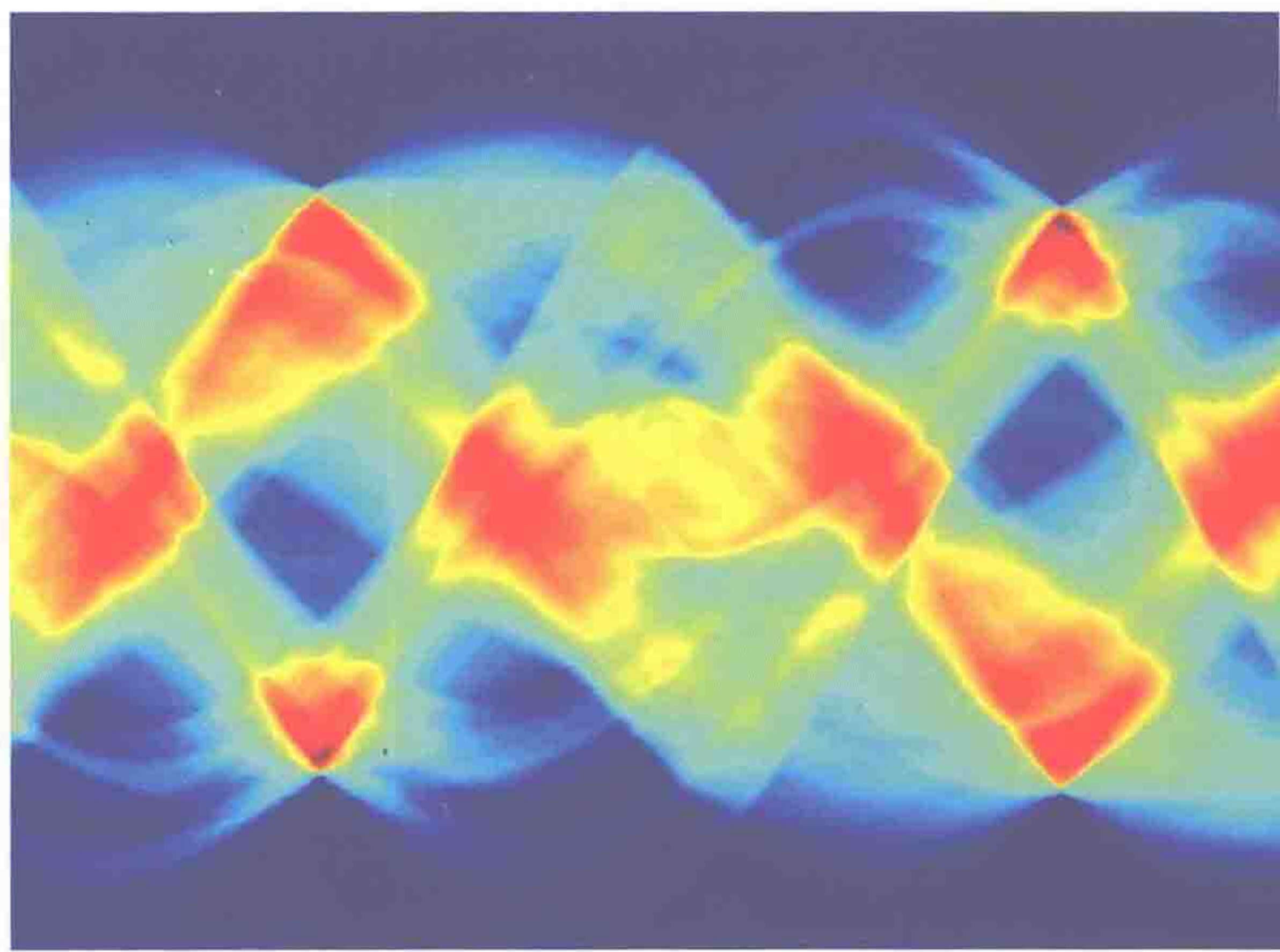
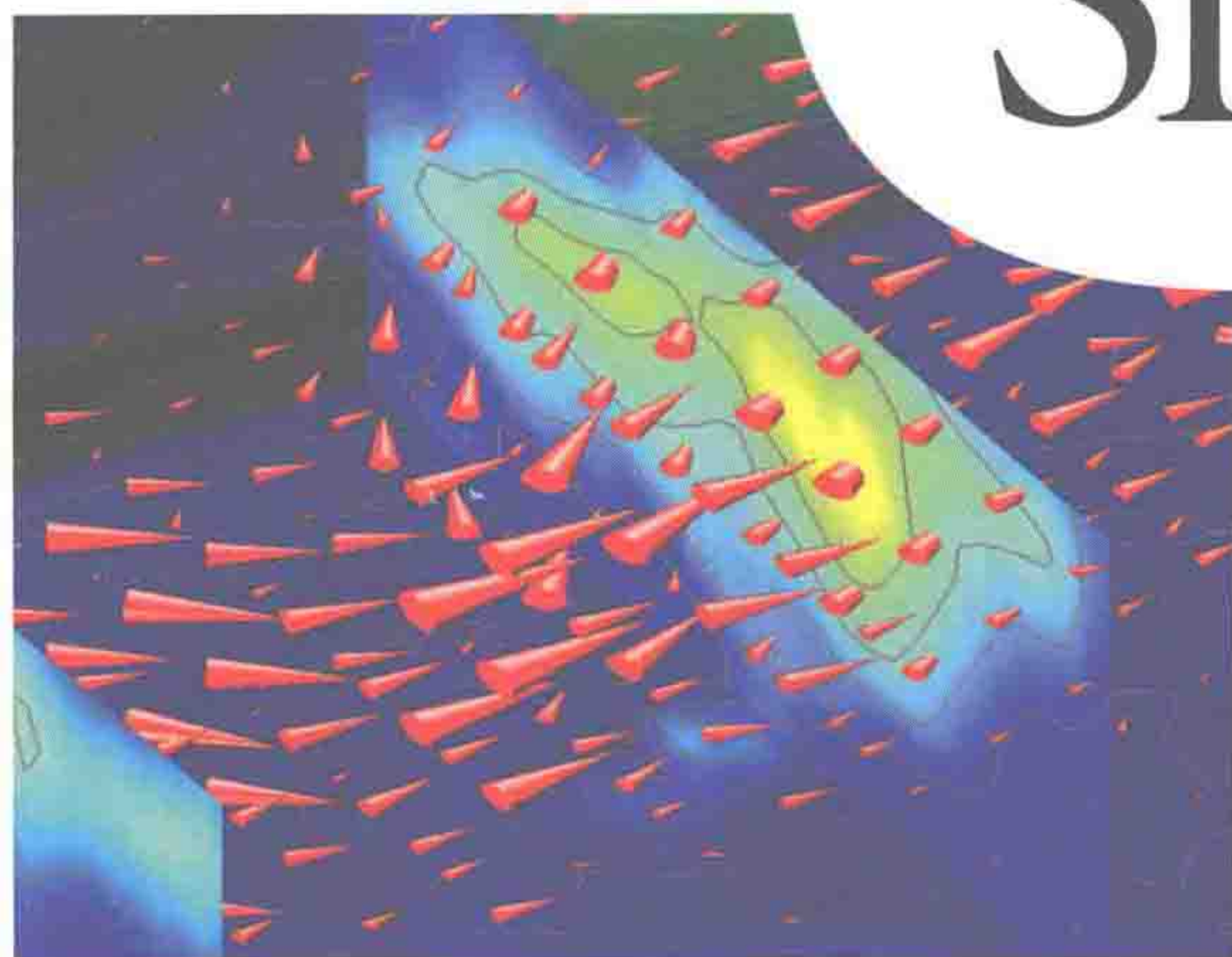
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RELEASE 13

Learning

SIMULINK[®] 5

MATLAB[®] & SIMULINK



MATLAB[®]
STUDENT VERSION
 with **SIMULINK[®]**

 The MathWorks

RELEASE
13

Learning

SIMULINK[®] 5

MATLAB[®]
STUDENT VERSION
with **SIMULINK[®]**

 The MathWorks

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Introduction

This chapter introduces the MATLAB Student Version and provides resources for using it.

About the Student Version (p. 1-2)

Description of the Student Version and how it differs from the professional version.

Obtaining Additional MathWorks Products (p. 1-6)

How to acquire other products that work with the Student Version.

Getting Started with Simulink (p. 1-7)

Steps for learning how to use Simulink.

Finding Reference Information (p. 1-8)

Techniques for learning more about Simulink.

Troubleshooting and Other Resources (p. 1-9)

Additional sources of information for the Student Version products.

About Simulink (p. 1-13)

High-level description of Simulink.

About the Student Version

MATLAB[®] and Simulink[®] are premier software packages for technical computation in education and industry. The MATLAB Student Version provides all of the features of professional MATLAB, with no limitations, and the full functionality of professional Simulink, with model sizes up to 300 blocks. The Student Version gives you immediate access to the high-performance numeric computing, modeling, and simulation power you need.

MATLAB allows you to focus on your course work and applications rather than on programming details. It enables you to solve many numerical problems in a fraction of the time it would take you to write a program in a lower level language. MATLAB helps you better understand and apply concepts in applications ranging from engineering and mathematics to chemistry, biology, and economics.

Simulink, included with the Student Version, is a block diagram tool for modeling and simulating dynamic systems, including controls, signal processing, communications, and other complex systems.

The Symbolic Math Toolbox, also included with the Student Version, is based on the Maple[®] 8 symbolic kernel and lets you perform symbolic computations and variable-precision arithmetic.

MATLAB products are used in a broad range of industries, including automotive, aerospace, electronics, environmental, telecommunications, computer peripherals, finance, and medical. More than 500,000 technical professionals at the world's most innovative technology companies, government research labs, financial institutions, and at more than 2,000 universities, rely on MATLAB and Simulink as the fundamental tools for their engineering and scientific work.

Student Use Policy

This Student License is for use in conjunction with courses offered at a degree-granting institution. The MathWorks offers this license as a special service to the student community and asks your help in seeing that its terms are not abused.

To use this Student License, you must be a student using the software in conjunction with courses offered at degree-granting institutions.

You may not use this Student License at a company or government lab. Also, you may not use it for research or for commercial or industrial purposes. In these cases, you can acquire the appropriate professional or academic version of the software by contacting The MathWorks.

Differences Between the Student Version and the Professional Version

MATLAB

The MATLAB Student Version provides full support for all language features as well as graphics, external interface and Application Program Interface (API) support, and access to every other feature of the professional version of MATLAB.

MATLAB Differences. There are a few small differences between the Student Version and the professional version of MATLAB:

- The MATLAB prompt in the Student Version is
EDU>>
- The window title bars include the words
<Student Version>
- All printouts contain the footer
Student Version of MATLAB

This footer is not an option that can be turned off; it will always appear in your printouts.

- The Documentation CD must be in your CD-ROM drive to start MATLAB. Once MATLAB starts, you can remove the CD. However, to access the online documentation, the CD must be in the CD-ROM drive.

Simulink

This Student Version contains the complete Simulink product, which is used with MATLAB to model, simulate, and analyze dynamic systems.

Simulink Differences.

- Models are limited to 300 blocks.
-

Note You may encounter some demos that use more than 300 blocks. In these cases, a dialog will display stating that the block limit has been exceeded and the demo will not run.

- The window title bars include the words
<Student Version>
 - All printouts contain the footer
Student Version of MATLAB

This footer is not an option that can be turned off; it will always appear in your printouts.
-

Note The Using Simulink documentation, which is accessible from the Help browser, contains all of the relevant information in the Learning Simulink book plus additional advanced information.

Symbolic Math Toolbox

The Symbolic Math Toolbox included with this Student Version lets you access all of the functions in the professional version of the Symbolic Math Toolbox except `maple`, `mapleinit`, `mfun`, `mfunlist`, and `mhelp`. For a complete list of all the available functions, see Appendix B, “Symbolic Math Toolbox Quick Reference,” in Learning MATLAB.